

Title (en)

POLYMER, OXIDIZED POLYMER, POLYMER COMPOSITION, GEL-TYPE POLYMER COMPOSITION, AND USE THEREOF

Title (de)

POLYMER, OXIDIERTES POLYMER, POLYMERZUSAMMENSETZUNG, GELARTIGE POLYMERZUSAMMENSETZUNG UND VERWENDUNG DAVON

Title (fr)

POLYMÈRE, POLYMÈRE OXYDÉ, COMPOSITION POLYMÈRE, COMPOSITION DE POLYMÈRE DE TYPE GEL ET LEURS UTILISATIONS

Publication

EP 3275916 A4 20180404 (EN)

Application

EP 16772633 A 20160325

Priority

- JP 2015065747 A 20150327
- JP 2016059627 W 20160325

Abstract (en)

[origin: EP3275916A1] A polymer having an excellent solubility in a hydrophilic polar solvent and an excellent stability in a solvent is provided. According to the present invention, there is provided that a polymer including one or two structural units selected from the group consisting of a structural unit represented by the following chemical formula (1): and a structural unit represented by the following chemical formula(2): wherein X1 and X2 may be the same as or different from each other, wherein X1 and X2 represent: H; an alkyl group having 1 to 12 carbon atoms, optionally having a substituent; an alkoxy group having 1 to 12 carbon atoms, optionally having a substituent; an alkylene oxide group having 1 to 12 carbon atoms, optionally having a substituent; a thiocyno group optionally having a substituent; an amino group optionally having a substituent; or a thioalkyl group optionally having a substituent, or X1 and X2 are combined to be an alkylenedioxy group having 1 to 12 carbon atoms, optionally having a substituent, or an alkylenedithio group having 1 to 12 carbon atoms, optionally having a substituent, wherein X1 and X2 are not any of combinations of both X 1 and X 2 being H, of both X 1 and X 2 being the alkyl group having 1 to 12 carbon atoms, and of one of X 1 and X 2 being H with the other being the alkyl group having 1 to 12 carbon atoms, and wherein R represents: an alkyl group having 1 to 12 carbon atoms; an alkoxy group having 1 to 12 carbon atoms; an alkylene oxide group having 1 to 20 carbon atoms and 1 to 50 repeating units; a phenyl group; a heterocyclic group; or a condensed ring group, having an acidic substituent or a salt thereof.

IPC 8 full level

C08G 61/12 (2006.01); **C08G 16/02** (2006.01); **C08L 65/00** (2006.01)

CPC (source: EP KR US)

C08G 16/0275 (2013.01 - EP US); **C08G 61/126** (2013.01 - EP KR US); **C08G 65/00** (2013.01 - KR); **C08J 3/075** (2013.01 - KR); **C08L 65/00** (2013.01 - EP US); **C08G 2261/1424** (2013.01 - EP US); **C08G 2261/3223** (2013.01 - EP US); **C08G 2261/45** (2013.01 - EP US); **C08G 2261/51** (2013.01 - EP US); **C08G 2261/79** (2013.01 - EP US)

Citation (search report)

- [A] EP 0260541 A2 19880323 - HONEYWELL INC [US]
- [XI] DE 102004033288 A1 20060202 - STARCK H C GMBH [DE]
- See references of WO 2016158752A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3275916 A1 20180131; **EP 3275916 A4 20180404**; **EP 3275916 B1 20211215**; CN 107406586 A 20171128; CN 107406586 B 20200327; JP 6704389 B2 20200603; JP WO2016158752 A1 20180118; KR 102085000 B1 20200305; KR 20170130429 A 20171128; TW 201704287 A 20170201; TW I684611 B 20200211; US 2018244838 A1 20180830; WO 2016158752 A1 20161006

DOCDB simple family (application)

EP 16772633 A 20160325; CN 201680015402 A 20160325; JP 2016059627 W 20160325; JP 2017509908 A 20160325; KR 20177026873 A 20160325; TW 105109355 A 20160325; US 201615562293 A 20160325